

WE CLAIM:

1. A dispensing apparatus comprising:  
a breach system;  
5 a dilution system; and  
a distribution system;  
the breach system being configured to open a container and release composition from the container and into the dilution system;

10 the dilution system being configured to receive the composition and to mix the composition with liquid;

the distribution system being configured to transport the mixture of composition and liquid from the apparatus.

2. The apparatus of claim 1, the breach system comprising:  
15 piercing system configured to break and push aside seal from container opening;  
rinsing system configured to contact the container and composition remaining in the container with a fluid and remove additional composition from the container;  
docking system configured to receive and dock the container of the composition; and  
container sensor configured to indicate that the container is positioned for receiving  
20 fluid from the rinsing system.

3. The apparatus of claim 2, the rinsing system being configured to rinse composition from the container and into the dilution system in less than about 10 minutes.

25 4. The apparatus of claim 2, the rinsing system being configured to rinse composition from the container and into the dilution system employing less than about 9 times the volume of the container of liquid.

30 5. The system of claim 2, the piercing system comprising hollow contoured spike, the hollow contoured spike housing at least a portion of the rinsing system.

6. The system of claim 2, the docking system comprising shape complementary to the container and configured to allow the container to enter the docking system to a distance effective to open the container, push aside the container seal, and position rinsing system for effective rinsing of the container.

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7. The apparatus of claim 1, the breach system being located over the dilution system.

8. The apparatus of claim 1, the dilution system comprising:  
10 tank configured to receive composition and rinse from the container and breach system and comprising volume sufficient to contain the composition and rinse; mixing system configured to combine the composition and rinse in the tank; and diluent sensor configured to indicate when fluid in the tank reaches a predetermined level or volume.

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9. The apparatus of claim 8, the mixing system comprising one or more jets.

10. The apparatus of claim 8, wherein the volume of fluid added is determined by the level of the fluid in the tank at the start of the addition cycle.

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11. The apparatus of claim 1, the distribution system comprising:  
fluid moving system,  
one or more fluid conducting systems, each configured to provide fluid communication;  
25 a fluid distributing system, and controller;  
the fluid moving system being configured to move fluid through the fluid conducting system and fluid distributing system at times and in amounts indicated by the controller;  
the fluid distributing system being configured to direct fluid to the one or more fluid conducting systems at times and in amounts indicated by the controller.  
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the controller being configured to direct the fluid moving system and fluid distributing system.

12. The apparatus of claim 11, the fluid distributing system comprising manifold,  
5 the manifold being configured to direct fluid to one or more sites of use.

13. The apparatus of claim 11, the manifold comprising manifold control valve.

14. The apparatus of claim 11, wherein the fluid moving system, fluid distributing  
10 system, and controller cooperate to circulate fluid within dilution system.

15. A method of dispensing a heterogeneous cleaning composition comprising:  
piercing a covering on an opening of a container and rinsing the container;  
thereby transferring the contents of the container into a dilution system;  
combining the contents with a fluid to produce an intermediate composition; and  
dispensing the intermediate composition to a washing machine.  
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